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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : David BAKER et al.

Serial No.: 10/516,747

Group Art Unit: Unknown

Filed: December 6, 2004

Examiner: Unknown

For: COMMUNICATIONS SYSTEMS AND METHODS

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR**  
**§§ 1.56, 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
- ☐ within three months of the filing date of a national application other than a CPA under § 1.53(d);
  - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
  - ☒ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
- a final rejection under 37 C.F.R. 1.113;
  - termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
  - a notice of allowance under 37 C.F.R. § 1.311; and

is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
- ☐ a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).

☐ Under 37 C.F.R. § 1.97(d), this information disclosure statement is filed after the mailing date of the following actions which have not been withdrawn:

- ☐ a final action under 37 C.F.R. § 1.113;
- ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2);
- ☐ OR a notice of allowance under 37 C.F.R. § 1.311;

AND is filed on or before payment of the issue fee; AND is accompanied by:

the statement as specified in 37 C.F.R. § 1.97(e) as set forth below, and the fee of \$180.00 under 37 C.F.R. § 1.17(p).

Statements Under 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

Cited Materials

- ☐ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. \_\_\_\_\_, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☒ Copies of materials listed but not attached were cited in an international search report dated 15 December 2003.
- ☐ Not required by 37 CFR § 1.98.
- ☐ Copies of the materials listed are attached (except for the foregoing).

### Non-English Language References

☒ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).

☐ A foreign-language search report from a foreign patent office is provided, and pertinent parts are translated substantively below:

X = document of particular relevance when it is taken alone

Y = document of particular relevance when it is combined with another such document

A = document defining the general state of the art

O = non-written disclosure

P = intercalated document

T = document cited to understand the theory or principle underlying the invention

E = patent document which has the benefit of a date earlier than the filing date and which was published only on or after this filing date

D = cited in the application

L = cited for another reason

& = publication of member of same patent family

☐ Translation of other relevant information on foreign search report

[insert necessary translation here]

### Other Information

#### Payment of Fees Due (If Any):

☐ A check for \$\_\_\_\_\_ covering the fee identified above is attached.

☐ Please charge to Deposit Account No. 13-3402 \$\_\_\_\_\_ for the fee identified above.

☒ The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account #13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,



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Attorney Docket No.: MARKSCAM-0003

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Substitute for form 1449A/PTO  <div style="text-align: center; font-weight: bold; font-size: 1.2em;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <div style="text-align: center; font-style: italic;">(use as many sheets as necessary)</div>				<div style="text-align: right; font-weight: bold; font-size: 0.9em;">Complete if Known</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/516,747</td> </tr> <tr> <td>Filing Date</td> <td>December 6, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>David BAKER et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>Unknown</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> <tr> <td>Attorney Docket Number</td> <td>MARKSCAM-0003</td> </tr> </table>		Application Number	10/516,747	Filing Date	December 6, 2004	First Named Inventor	David BAKER et al.	Group Art Unit	Unknown	Examiner Name	Unknown	Attorney Docket Number	MARKSCAM-0003
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Sheet	1	of	2														

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Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached. Number refers to English language corresponding family member.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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Attorney Docket Number	MARKSCAM-0003

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	3	FONTANA R, "Recent advances in ultra wideband communications systems," 2002 IEEE Conference on Ultra Wideband Systems and Technologies, pages 129-133.	
	4	CUOMO F., "Radio resource sharing for ad hoc networking with UWB," IEEE Journal on Selected Areas in Communications, Dec. 2002, vol. 20, no. 9, pages 1722-1732.	
	5	BALDI P., "Modeling and optimizations of UWB communications networks through a flexible cost function," IEEE Journal on Selected Areas in Communications, December 2002, vol. 20, no. 9, pages 1733-1744.	
	6	Internet site: <a href="http://moment.cs.ucsb.edu/AODV/aodv.html">http://moment.cs.ucsb.edu/AODV/aodv.html</a> , 13 January 2005.	
	7	CHAKERES ET AL., "AODV Routing Protocol Implementation Design," Proceedings of the International Workshop on Wireless Ad Hoc Networking (WWAN), Tokyo, Japan, March 2004.	
	8	DAS ET AL., "Performance comparison of two on-demand routing protocols for Ad hoc Networks," IEEE Personal Communications Magazine special issue on Ad hoc Networking, February 2001, p16-28.	
	9	PERKINS ET AL., "Ad Hoc On Demand Distance Vector (AODV) Routing," IETF Internet draft, draft-perkins-manet-aodvbis-00.txt, Oct 2003 (Work in Progress).	
	10	PERKINS ET AL., "Ad Hoc On Demand Distance Vector (AODV) Routing," IETF RFC 3561.	
	11	PERKINS ET AL., "Ad Hoc On Demand Distance Vector (AODV) routing for Ipv6," IETF Internet draft, draft-ietf-manet-aodv6-01.txt, November 2000 (Work in Progress).	
	12	BELDING-ROYER ET AL., "Global Connectivity for IPv4 Mobile Ad hoc Networks," IETF Internet Draft, draft-royer-manet-globalv4-00.txt, November 2001 (Work in Progress).	
	13	WAKIKAWA ET AL., "Global Connectivity of IPv6 Mobile Ad hoc Networks," IETF Internet Draft, draft-wakikawa-manet-globalv6-00.txt, November 2001 (Work in Progress).	
	14	PERKINS ET AL., "IP Address Autoconfiguration for Ad Hoc Networks draft-ietf-manet-autoconf-01.txt", Mobile Ad Hoc Networking Working Group, INTERNET DRAFT, November 2001 (Work in Progress).	
	15	PERKINS ET AL., "IP Flooding in Ad hoc Mobile Networks," IETF Internet Draft, draft-ietf-manet-bcast-02.txt, November 2001 (Work in Progress).	
	16	ZAPATA ET AL., "Secure Ad hoc On-Demand Distance Vector (SAODV) Routing," IETF Internet Draft, draft-guerrero-manet-saodv-00.txt, August 2001 (Work in Progress).	
	17	PERKINS ET AL., "Ad Hoc On Demand Distance Vector (AODV) Routing draft-ietf-manet-aodv-01.txt," 10 August 1998.	

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